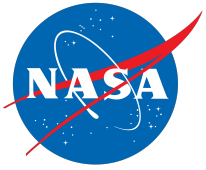




# PDS4 Report

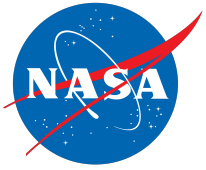
Dan Crichton

April 10, 2014



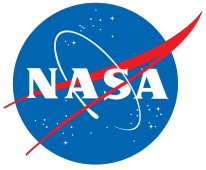
# Topics

- Executive Overview
  - Builds
  - Update plans for PDS4 website
  - IPDA
- Validation



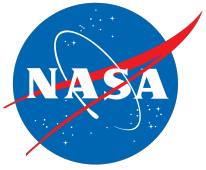
# PDS4 Topics for this MC

- CCB Status
- Build 4a deployment
- Build 4b plans and release
  - Information model and document preparation
  - Software preparation and release
  - Integration and Test
  - Deployment
- Short and long term plan for PDS4 website access
- Improved Validation
- Node PDS4 plans
  - Ensure continued alignment with mission drivers/dates



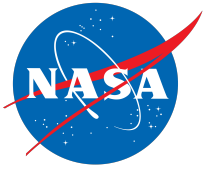
# PDS4 System Builds

- PDS4 released as a series of system builds
  - Full software/system lifecycle (design, implementation, test, release)
- Software and standards locked down at the end of September and March
  - Gives us something to plan against (e.g., implementation of CCB approved SCRs)
  - Regular releases/improvements
- Incremental builds can be performed when needed
  - Critical change to IM
  - Software bug



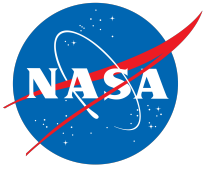
## Build 4a

- Software and V1.1 of the PDS4 Standards
- Completed I&T in December
- ORR board approved deployment
  - Late December
- Deployment began in January
  - Operational at PDS Engineering (January)
  - Operational at Atmospheres (February)
    - Preparation for LADEE
  - Began deploying to nodes (March)



## Build 4b

- PDS4 software and information model/ standards updates
  - V1.2 of the PDS4 IM and Standards of approved SCRs
- I&T underway
  - Software and IM delivered March 31, 2014
  - Regression testing
- More to come from presentations on IM, Software and I&T/Operations



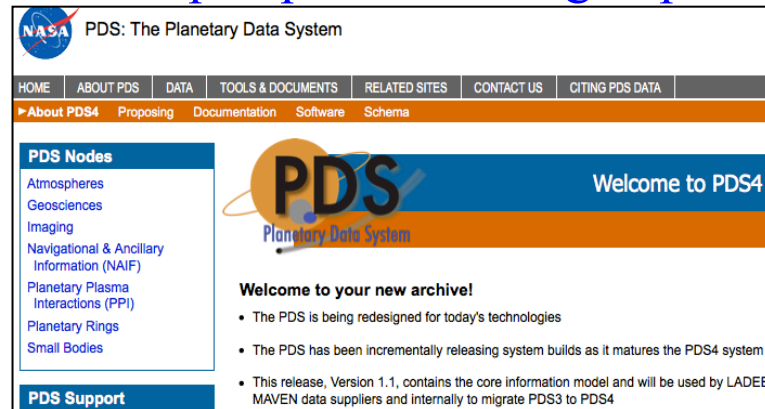
# PDS4 Web Pages



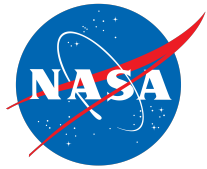
PDS4 web pages to include

- Welcome to PDS4
- Information for Proposers
- Documentation
- Software
- Schema

<https://pdsbeta.nasa.gov/pds4>



<https://pdsbeta.jpl.nasa.gov/>



# Documents for Proposers



<http://pdsbeta.jpl.nasa.gov/pds4/propose/>

## Near Term

- Complete review of Information for Proposers page
  - Capture comments
  - Finalize updates to PAG
- Add “PDS4” to PDS home page menu
- Continue to keep the pages up to date

**PDS: The Planetary Data System**

• NASA Portal  
• Site Help  
• Feedback  
• Phone Book

HOME ABOUT PDS PDS4 DATA TOOLS & DOCUMENTS RELATED SITES CONTACT US CITING PDS DATA

About PDS4 Proposing Documentation Software Schema

**PDS Nodes**  
Atmospheres  
Geosciences  
Imaging  
Navigational & Ancillary Information (NAIF)  
Planetary Plasma Interactions (PPI)  
Planetary Rings  
Small Bodies

**PDS Support**  
Management  
Engineering

**PDS4**  
PDS4 Main  
Information for Data Providers  
FAQ

**Information for Proposers**

The archiving process in the PDS works like this:

1. Agreement with the PDS about what to archive, how, and when.
2. Creation of archive products and data volumes
3. Submission of data and peer review
4. Public availability of the data

More information about each of these steps is given below. For complete details, see the [Proposers Archiving Guide \(PDF\)](#).

**Proposing to Archive**

Your mission or data analysis proposal must contain information about how you plan to archive your results into the PDS. Typical AO's require that proposals include a discussion of products to be delivered to PDS and that budgets include appropriate funding for this activity. PDS personnel are also available to answer archive design questions from proposal teams on a confidential basis. To complete your proposal, you may need to use the [Archiving Cost Analysis Tool](#).

**Other Helpful Information**

- [Proposing Missions](#)
- [Proposing Advanced Products](#)
- [ROSES support in the PDS](#)
- [Archiving Checklist for PI-Led Proposals](#) to help you develop a compliant and efficient data management and archiving plan

**Archiving Agreements**

Prior to submitting data to the PDS, an instrument or analysis team must obtain an agreement with the PDS about what data will be archived, the exact data format that will be used, the timing of deliveries, and the process of data reviews. These agreements are detailed in these documents:

<b>Memorandum of Understanding (MOU)</b>	Created first, to briefly outline the scope of data to be archived.
<b>Data Management Plan (DMP)</b>	Details of the process for managing and processing the data prior to submission to the PDS.
<b>Archiving Plan (AP)</b>	Details of the archive creation, submission, and review processes.

Often, the DMP and AP are combined into one *Data Management and Archiving Plan (DMAP)*.

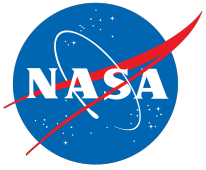
**Examples**

- [MOU from Mars Reconnaissance Orbiter](#)
- [DMAP from Mercury Messenger](#)

USA.gov  
Government that works for you

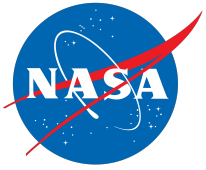
Privacy / Copyright  
Freedom of Information Act





# PDS4 Web Site Improvement

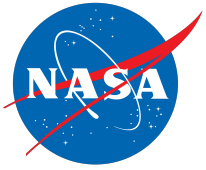
- As PDS4 is maturing, it's time to better integrate PDS3 and PDS4 information on the PDS web site
- Web integration plan
  - Review PDS web site structure and content
  - Propose a new structure that will optimize access to integrated content
  - Develop prototype site
  - Be careful to ensure persistent links
  - Review, refine and then deploy
  - Present storyboard and prototype at next F2F



# IPDA Status

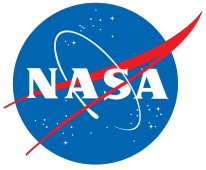
- Leadership
  - Chair, Alain Sarkissian, IPSL
  - Deputy Chair, Gopala Krishna, ISRO
  - Dan keeps the light on
- Regular teleconference occurring (~ every 2 months)
- Summer Plans \*
  - COSPAR data management and exploitation session planned
    - Two half days
    - > 20 talks
    - Approximately 10 posters
  - IPDA Steering Committee hosted by Russian colleagues in Moscow
    - To follow COSPAR
    - Using Dave Heather's ExoMars collaboration

\* Watching NASA guidance on Russia travel



# IPDA Projects

- MOU Project – Reta Beebe, Yukio Yamamoto, (JAXA)
- IVOA/IPDA Project – Christophe Arviset (ESA)
- PDS4 Implementation Project – Dave Heather (ESA), Santa Martinez (ESA), Steve Hughes
- PDAP Project – Jesus Salgado (ESA)
- Registry Project – Dan Crichton, Sean Hardman
- CDF Compatibility – Todd King, Steve Joy
- Chandryaan-1 interoperability with PDAP – Gopala Krishna (ISRO)
- Outreach/COSPAR – Alain (IPSL) and Dan



# Recommendations

- Website
  - Highlight PDS4 on the PDS homepage
  - Lock down changes to PAG
  - Begin planning for integration of PDS3 and PDS4 artifacts to improve navigation
- Build 4b
  - Plan for release (to be discussed today)

# Backup